

SEQUENCE LISTING

(1) GENERAL INFORMATION:

5 (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

10 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (oligonucleotide)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

15 FR-patched RFB4

VH:

Full length cDNA sequence (SEQ ID no. 1):

20 GAAGTCAGCTGGAGTCTGGGGAGGCTAGTGCAGCCTGGA
GGTCCCTGAGGCTCCTGTGCAGCCTCTGGATTCTCCTTCAGTAT
CTATGACATGTCTGGGTTGCCAGGCACCGGAAAGGGCTGGA
GTGGGTCGCATACATTAGTAGTGGTGGTACCACTACTATCCA
GACACTGTGAAGGGCGATTACCATCTCCAGAGACAATGCCAAG
AACTCCCTGTACCTGCAAATGAACAGTCTGAGGGTGGAGGACACA
25 GCCTTATATTACTGTGCAAGACATAGTGGTACGGTAGTACG
GGGTTTGTGCTTACTGGGCCAAGGGACTCTGGTCACTGTCTCT
TCA

Full length amino acid sequence (SEQ ID no. 2):

30 EVQLLESGGLVQPGSLRLSCAASGFSFSIYDMSWVRQAPGKGLEW
VAYISSGGTTYPDTVKGRFTISRDNAKNSLYLQMNSLRVEDTALYY
CARHSGYGSSYGVLFAYWGQGTLVTVSS

N-terminal sense strand template DNA sequence (SEQ ID no. 3):

35 CCTGGAGGGTCCCTGAGGCTCCTGTGCAGCCTCTGGATTCTCCTT
CAGTATCTATGACATGTCTGGTTCGCCAGGCACCGGAAAGGGGG
CTGGAGTGGTCGCATAC

5' Primer for N-template (SEQ ID no. 4)

40 GAAGTCAGCTGGAGTCTGGGGAGGCTAGTGCAGCCTGGA
GGTCCCTGAGG

3' Primer for N-template (SEQ ID no. 5)

45 GTAGGGGGTACCACCACTACTAATGTATGCGACCCACTCCAGC
CC

C-terminal sense strand template DNA sequence (SEQ ID no. 6):

5' TTCACCATCTCCAGAGACAATGCCAAGAACTCCCTGTACCTGCAAA
TGAACAGTCTGAGGGTGGAGGACACAGCCTTATATTACTGTGCAAG
ACATAGTGGCTACGGTAGTAGCTACGGGTTTGCTTGC
5 5' Primer for C-template (SEQ ID no. 7)
GGTGGTACCCACCTACTATCCAGACACTGTGAAGGGCCGATTACCA
TCTCCAGAGACAAT
10 3' Primer for C-template (SEQ ID no. 8)
TGAAGAGACAGTGACCAGAGTCCCTGGCCCCAGTAAGCAAACAA
AACCCCGTAGCT
15 Joining site: KpnI
VK:
Full length cDNA sequence (SEQ ID no. 9)
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
AGACAGAGTCACCATTAGTTGCAGGGCAAGTCAGGACATTAGCAA
20 TTATTTAACTGGTATCAGCAGAAACCAGGTAAGGCTCCGAAACTC
CTGATCTACTACACTAGTATTAACACTCAGGAGTCCCCTCAAGGT
TCAGTGGCAGTGGGTCTGGAACAGAATTACTCTCACCATTAGCTC
CCTGCAGCCAGAAGATTGCCACTTACTTTGCCAACAGGGTAAT
ACGCTTCCGTGGACGTTGGAGGCACCAAGGTGGAAATCAA
25 Full length amino acid sequence (SEQ ID no. 10)
DIQMTQSPSSLSASVGDRVTISCRASQDISNYLNWYQQKPGKAPKLLIY
YTSILHSGVPSRSGSGTEFTLTISLQPEDFATYFCQQGNTLPWTFG
GGTKVEIK
30 N-terminal sense strand template DNA sequence (SEQ ID no. 11)
CTGCTGCCTCTGTGGAGACAGAGTCACCATTAGTTGCAGGGCAA
GTCAGGACATTAGCAATTATTAACTGGTATCAGCAGAAACCAGG
TAAGGCTCCGAAACTC
35 5' Primer for N template (SEQ ID no. 12)
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
AGAC
40 3' Primer for N-template (SEQ ID no. 13)
ATATACTAGTGTAGTAGATCAGGAGTTGGAGCCTTACC
C-terminal sense strand template DNA sequence (SEQ ID no. 14)
45 CCATCAAGGTTTCAGTGGCAGTGGTCTGGAACAGAATTACTCTCA
CCATTAGCTCCCTGCAGCCAGAAGATTGCCACTTACTTTGCCAA
CAGGGTAATACGCTTCCGTGGACGTT
50 5' Primer for C-template (SEQ ID no. 15)
CTACACTAGTTATATTACACTCAGGAGTCCCCTCAAGGTTAGTGGC
AGT

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3' Primer for C-template (SEQ ID no. 16)

TTTGATTCCACCTGGTGCCTCCACCGAACGTCCACCGAAGCGTA
TT

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Joining site: SpeI A^YCTAG_ΔT

10 FR-Patched chimeric 1F5

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VH:

Full length cDNA sequence (SEQ ID no. 17):

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CAGGTGCAACTGGTGGCTCCGGGGCTGAGGTAATAAGCCTGGG
GCCTCAGTGAAGGTCTCCTGCAAGGCTCTGGCTACACATTACCA
GTTACAATATGCACTGGGTACGGCAGCCTCTGGAAGGGGCTGGA
ATGGATTGGAGCTATTATCAGGAAATGGTGTACTAGTTACAAT
CAGAAATTCAAGGGCAAGGCCACATTGACTGCAGACAAATCCTCC
AGCACAGCCTACATGCAGCTCAGCAGTCTGACATCTGAGGACTCTG
20 CGGTCTATTACTGTCAAGATCGCACTACGGTAGTAACACTACGTAGA
CTACTTGACTACTGGGCCAAGGCACCACTGTTACAGTCTCCTCT
GATCA

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Full-length amino acid sequence (SEQ ID no. 18):

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QVQLVASGAEVNKPGASVKVSCKASGYTFTSYNMHWVRQPPGRGLE
WIGAIYPNGDTSYNQFKKGATLTADKSSSTAYMQLSSLTSEDSAVY
YCARSHYGSNYVDYFDYWGQGTTVTVSSD

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N-terminal sense strand template DNA sequence (SEQ ID no. 19):

AATAAGCCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTCTGGCT
ACACATTACCAAGTTACAATATGCACTGGTACGGCAGCCTCTGG
AAGGGGCCTGGAATGGATTGGA

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5' Primer for N-template (SEQ ID no. 20)

CAGGTGCAACTGGTGGCTCCGGGGCTGAGGTAATAAGCCTGGG
GCCTCAGTGAAG

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3' Primer for N-template (SEQ ID no. 21)

TGTAACTAGTTACCATTCCTGGATAAAAGCTCCAATCCATTCC
AGGCCCT

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C-terminal sense strand template DNA sequence (SEQ ID no. 22):

TTGACTGCAGACAAATCCTCCAGCACAGCCTACATGCAGCTCAGCA
GTCTGACATCTGAGGACTCTCGGGTCTATTACTGTGCAAGATCGCA
CTACGGTAGTAACACTACGTAGACTACTTGACTAC

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5' Primer for C-template (SEQ ID no. 23)

TGATACTAGTTACAATCAGAAATCAAGGGCAAGGCCACATTGACT
GCAGACAAATCCTCC

3' Primer for C-template (SEQ ID no. 24)
TGATCAGAGGAGACTGTAACAGTGGTGCCTGGCCCCAGTAGTCAA
AGTAGTCTACGTA

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Joining site: SpeI

VK:

10 Full-length cDNA sequence (SEQ ID no. 25):
GATATTCAACTCACACAGTCTCCATCAAGTCTTCTGCATCTGTGGG
GGACAGAGTCACAATTACTGCAGGGCCAGCTCAAGTTAAGTTTC
ATGCACTGGTACCAGCAGAAGCCAGGATCCTCCCCAAACCCCTGGA
TTTATGCCACATCCAACCTGGCTCCGGAGTCCCTAGTCGCTTCAGT
15 GGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCAGTTGC
AGCCTGAAGATTGCCACTTATTCTGCCATCAGTGGAGTAGTAA
CCCGCTCACGTTGGTCTGGGACCAAGCTGACCGTTACGG

20 Full-length amino acid sequence (SEQ ID no. 26):
DIQLTQSPSSLSASVGDRVITCRASSSLSFMHWYQQKPGSSPKPWIYA
TSNLASGVPSRFSGSGLTEFTLTISSLQPEDFATYFCHQWSSNPLTFGA
GTKLTVLR

25 N-terminal sense strand template DNA sequence (SEQ ID no. 27):
TCAAGTCTTCTGCATCTGTGGGGACAGAGTCACAATTACTGCA
GGGCCAGCTCAAGTTAAGTTCATGCACTGGTACCGAGCAGAACCC
AGGATCCTCCCCAAACCCCTGGATTATGCCACATCC

30 5' Primer for N-template (SEQ ID no. 28):
GATATTCAACTCACACAGTCTCCATCAAGTCTTCTGCATCTGTG

3' Primer for N-template (SEQ ID no. 29):
GGACTCCGGAAGCCAGGTTGGATGTGGCATAATCCAGGG

35 C-terminal sense strand template DNA sequence (SEQ ID no. 30):
TTCAGTGGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCA
GTTTGCAGCCTGAAGATTGCCACTTATTCTGCCATCAGTGGAGT
AGTAACCCGCTCACGTTGGTCTGGG

40 5' Primer for C-template (SEQ ID no. 31):
GGCTTCCGGAGTCCCTAGTCGCTTCAGTGGCAGTGGGTCTGGG

3' Primer for C-template (SEQ ID no. 32):
CCGTAGAACGGTCAGCTGGTCCCAGCACCGAACGTGAGCGG

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Joining site: BspEI